

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS PERCENT LIGHT FIBERS

Calculated F-ratio= 18.7813 with 4 , 2 degrees of freedom.

The variances are equal since 18.7813 is less than 19.2500

RAW DATA

	<u>GROUP 1</u>	<u>GROUP 2</u>
1====>	13.5000	15.3000
2====>	12.5000	11.4000
3====>	12.6000	15.9000
4====>		18.0000
5====>		15.3000

N's	====>	3	5
Total	====>	38.6000	75.9000
Mean	====>	12.8667	15.1800
Sum of squares	====>	0.6067	22.7880
Variances	====>	0.3033	5.6970
Std deviations	====>	0.5508	2.3868

Calculated value of T= 1.6042 with 6 degrees of freedom.

The exact P-value is: 0.1598 or 84.02%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

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DFPT RFA VS RFA PLANTARIS PERCENT LIGHT INTERMEDIATE FIBERS

Calculated F-ratio= 17.6014 with 4 , 2 degrees of freedom.

The variances are equal since 17.6014 is less than 19.2500

RAW DATA

	<u>GROUP 1</u>	<u>GROUP 2</u>
1====>	0.8000	1.7000
2====>	0.9000	6.9000
3====>	0.0000	3.5000
4====>		2.0000
5====>		3.2000

N's	====>	3	5
Total	====>	1.7000	17.3000
Mean	====>	0.5667	3.4600
Sum of squares	====>	0.4867	17.1320
Variances	====>	0.2433	4.2830
Std deviations	====>	0.4933	2.0695

Calculated value of T= 2.3120 with 6 degrees of freedom.

The exact P-value is: 0.0601 or 93.99%

The samples DO differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

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DFPT RFA VS RFA PLANTARIS PERCENT DARK INTERMEDIATE FIBERS

Calculated F-ratio= 4.8357 with 2 , 4 degrees of freedom.

The variances are equal since 4.8357 is less than 6.9400

RAW DATA

	<u>GROUP 1</u>	<u>GROUP 2</u>
1====>	10.5000	4.2000
2====>	4.5000	6.9000
3====>	8.4000	5.3000
4====>		5.3000
5====>		3.2000

N's	====>	3	5
Total	====>	23.4000	24.9000
Mean	====>	7.8000	4.9800
Sum of squares	====>	18.5400	7.6680
Variances	====>	9.2700	1.9170
Std deviations	====>	3.0447	1.3846

Calculated value of T= 1.8476 with 6 degrees of freedom.

The exact P-value is: 0.1142 or 88.58%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

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DFPT RFA VS RFA PLANTARIS PERCENT DARK FIBERS

Calculated F-ratio= 3.0099 with 2 , 4 degrees of freedom.

The variances are equal since 3.0099 is less than 6.9400

RAW DATA

	<u>GROUP 1</u>	<u>GROUP 2</u>
1====>	75.2000	78.8000
2====>	82.1000	74.8000
3====>	79.0000	75.2000
4====>		74.7000
5====>		78.2000

N's	====>	3	5
Total	====>	236.3000	381.7000
Mean	====>	78.7667	76.3400
Sum of squares	====>	23.8867	15.8720
Variances	====>	11.9433	3.9680
Std deviations	====>	3.4559	1.9920

Calculated value of T= 1.2908 with 6 degrees of freedom.

The exact P-value is: 0.2443 or 75.57%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

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DFPT RFR VS RFR PLANTARIS PERCENT LIGHT FIBERS

Calculated F-ratio= 1.4111 with 4 , 4 degrees of freedom.

The variances are equal since 1.4111 is less than 6.3900

RAW DATA

	<u>GROUP 1</u>	<u>GROUP 2</u>
1====>	10.6000	13.8000
2====>	15.0000	14.5000
3====>	7.2000	7.7000
4====>	19.3000	10.4000
5====>	10.3000	5.5000
N's	====> 5	5
Total	====> 62.4000	52.3000
Mean	====> 12.4800	10.4600
Sum of squares	====> 89.0280	63.0920
Variances	====> 22.2570	15.7730
Std deviations	====> 4.7177	3.9715

Calculated value of T= 0.7324 with 8 degrees of freedom.

The exact P-value is: 0.4848 or 51.52%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

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DFPT RFR VS RFR PLANTARIS PERCENT LIGHT INTERMEDIATE FIBERS

Calculated F-ratio= 2.2909 with 4 , 4 degrees of freedom.

The variances are equal since 2.2909 is less than 6.3900

RAW DATA

	<u>GROUP 1</u>	<u>GROUP 2</u>
1====>	2.6000	4.8000
2====>	1.4000	4.7000
3====>	3.6000	3.4000
4====>	5.9000	3.8000
5====>	7.9000	7.8000
N's	====> 5	5
Total	====> 21.4000	24.5000
Mean	====> 4.2800	4.9000
Sum of squares	====> 27.3080	11.9200
Variances	====> 6.8270	2.9800
Std deviations	====> 2.6129	1.7263

Calculated value of T= 0.4427 with 8 degrees of freedom.

The exact P-value is: 0.6697 or 33.03%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

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DFPT RFR VS RFR PLANTARIS PERCENT DARK INTERMEDIATE FIBERS

Calculated F-ratio= 3.3278 with 4 , 4 degrees of freedom.

The variances are equal since 3.3278 is less than 6.3900

RAW DATA

	<u>GROUP 1</u>	<u>GROUP 2</u>
1====>	14.2000	9.7000
2====>	0.7000	2.7000
3====>	25.2000	12.8000
4====>	7.6000	6.6000
5====>	4.0000	16.4000

N's	==>	5	5
Total	==>	51.7000	48.2000
Mean	==>	10.3400	9.6400
Sum of squares	==>	376.3520	113.0920
Variances	==>	94.0880	28.2730
Std deviations	==>	9.6999	5.3172

Calculated value of T= 0.1415 with 8 degrees of freedom.

The exact P-value is: 0.8910 or 10.90%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

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DFPT RFR VS RFR PLANTARIS PERCENT DARK FIBERS

Calculated F-ratio= 6.8578 with 4 , 4 degrees of freedom.

The variances are UNEqual since 6.8578 is greater than 6.3900

RAW DATA

	<u>GROUP 1</u>	<u>GROUP 2</u>
1====>	72.6000	71.7000
2====>	82.9000	77.7000
3====>	56.8000	76.1000
4====>	67.2000	79.2000
5====>	77.8000	70.3000

N's	====>	5	5
Total	====>	357.3000	375.0000
Mean	====>	71.4600	75.0000
Sum of squares	====>	405.4320	59.1200
Variances	====>	101.3580	14.7800
Std deviations	====>	10.0677	3.8445

Calculated value of T= 0.7345 with 6 degrees of freedom.

The exact P-value is: 0.4903 or 50.97%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.